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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	·	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,098		12/21/2005	George Henry Platt Brown	UDL1P017/RMV/jwa/P400715U 9493		
28875	7590	08/03/2006		EXAMINER		
Zilka-Kotab, PC				NGUYEN		, CHAU N
P.O. BOX 72 SAN JOSE,		172-1120			ART UNIT	PAPER NUMBER
,					2831 DATE MAILED: 08/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

4/

	Application No.	Applicant(s)						
Office Action Communication	10/522,098	BROWN ET AL.						
Office Action Summary	Examiner	Art Unit						
	Chau N. Nguyen	2831						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Responsive to communication(s) filed on 23 Ju	<u>ne 2006</u> .							
a) This action is FINAL . 2b) This action is non-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.						
Disposition of Claims								
4) ☐ Claim(s) <u>28-43</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>28-43</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.							
Application Papers								
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 23 June 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)	_							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e						
Patent and Trademark Office								

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DETAILED ACTION

Claim Objections

1. Claim 28 is objected to because of the following informalities: in claim 28, line 7, change "said row" to --each said row--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 28, 32, 36, 40 and 41 are rejected under 35 U.S.C. 102(b) as being anticipated by Sano et al. (5,109,456).

Sano et al. discloses, Figure 4, a signal transmitting cable comprising a first signal transmitting portion including a plurality of elongate, flexible first signal transmitting members (each member being comprised of elements 23 and 24), wherein the first signal transmitting members of the first signal transmitting portion are surrounded by a first layer of resin material (25) curable by means of radiation such that only the outermost signal transmitting members of the first

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signal transmitting members are in contact with said first layer, and said first signal transmitting members are arranged to form at least three rows, wherein for each said row containing a plurality of said members, said members are arranged such that neighbouring members of each row are in touching contact with each other, each recess formed by neighbouring members of a first said row facing towards a second said row accommodates a respective member of said second row, and said first layer is in touching contact with substantially all of the outward facing surface of the first signal transmitting portion (re claim 28). Sano et al. also discloses the first layer being formed of resin material cured by means of ultraviolet radiation (re claim 32), an outer surface of the cable being modified to facilitate installation into a duct by means of fluid flow (re claim 36), the outermost layer having an inner periphery longer than the outer periphery of the layer adjacent thereto (re claim 40), and claim 41 is a method counterpart of claim 28.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al.

Sano et al. discloses the invention substantially as claimed except for the first transmitting portion including 12, 18 or 24 members arranged in 4 or 5 rows having 2, 3, 4 & 3, or 2, 4, 5, 4 & 3, or 4, 5, 6, 5 & 4. However, it would have been obvious to one skilled in the art to provide the first transmitting portion of Sano et al. with 12, 18 or 24 transmitting members arranged in 4 or 5 rows having 2, 3, 4 & 3, or 2, 4, 5, 4 & 3, or 4, 5, 6, 5 & 4 configuration to increase the transmission capacity of the cable since it has been held that merely duplicating the

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essential working parts of a device involves only routine skill in the art. St. Regis

Paper Co. v. Bemis Co., 193 USPQ 8.

6. Claims 33-35, 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al. in view of Thompson (4,523,804).

Sano et al. discloses the invention substantially as claimed except for a second signal transmitting portion comprising a plurality of elongate, flexible second signal transmitting members arranged around the periphery of the first layer, wherein the external dimensions of said first layer are arranged such that each said second signal transmitting member is in touching contact with two adjacent said second signal transmitting members (re claims 33 & 42), a third signal transmitting portion comprising a plurality of elongate, flexible third signal transmitting members arranged outwardly of said second signal transmitting portion (re claim 34), and the second signal transmitting members being embedded in a second layer (re claims 35 & 43).

Thompson discloses a cable comprising a second transmitting portion comprising a plurality of elongate, flexible second transmitting members (22) arranged around the periphery of a first layer, wherein the external dimensions of said first layer are arranged such that each said second transmitting member is in

touching contact with two adjacent said second transmitting members, a third transmitting portion comprising a plurality of elongate, flexible third transmitting members (24) arranged outwardly of said second transmitting portion, and the second transmitting members being embedded in a second layer (26).

It would have been obvious to one skilled in the art to provide the cable of Sano et al. with a second signal transmitting portion comprising a plurality of elongate, flexible second signal transmitting members which are embedded in a second layer, arranged around the periphery of the first layer and arranged such that each said second signal transmitting member is in touching contact with two adjacent said second signal transmitting members as taught by Thompson to increase the transmitting capacity of the cable. It would have been obvious to one skilled in the art to provide the cable of Sano et al. with a third signal transmitting portion comprising a plurality of elongate, flexible third signal transmitting members arranged outwardly of the second signal transmitting portion as taught by Thompson to increase the transmitting capacity of the cable.

7. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al. in view of Shoffner (4,892,442).

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Claim 37 additionally recites the outer surface of the cable being provided with ribs. Shoffner discloses a jacket (10) provided with ribs (22) on the outer surface. It would have been obvious to one skilled in the art to provide ribs on the outer surface of the Sano et al. cable to reduce friction between the cable and an adjacent object as taught by Shoffner.

8. Claims 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al. in view of Davis et al. (6,801,696).

Claims 38 and 39 additionally recite the outer surface of the cable including at least one anti-static material or at least one friction reducing material.

Davis et al. discloses a cable in which the outer surface (12) including at least one anti-static material or at least one friction reducing material. It would have been obvious to one skilled in the art to provide the outer surface of the Sano et al. cable with at least one anti-static material or at least one friction reducing material to reduce the friction between the cable and conduit during installation as taught by Davis et al.

Response to Arguments

9. Applicant's arguments filed June 23rd 2006 have been fully considered but they are not persuasive.

Applicant primarily alleges that the material 25 of Sano et al. additionally fills the interstices between the innermost signal transmitting members (sub-units), while the claimed invention recites only the outermost signal transmitting members being in contact with the material. Examiner disagrees because Sano et al. teaches that high elastic wire material may be arranged in the gap among the gathered sub-units (col. 6, lines 34-39).

Summary

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will

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be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N. Nguyen whose telephone number is 571-272-1980. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chau N Nguyen Primary Examiner Art Unit 2831

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